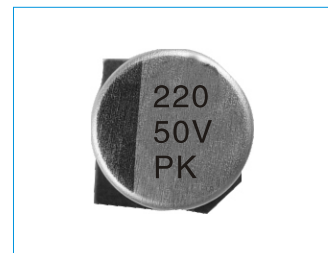
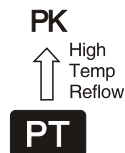


Chip Type Aluminum Electrolytic Capacitors

PK Chip Type Series



- Case diameter: $\Phi 4\text{mm} \sim \Phi 10\text{mm}$
- Corresponding with 260°C peak reflow soldering
- Available for high density surface mounting
- Operating over wide temperature range(-55°C~+105°C).
- Adapted to the RoHS directive (2002/95/EC).

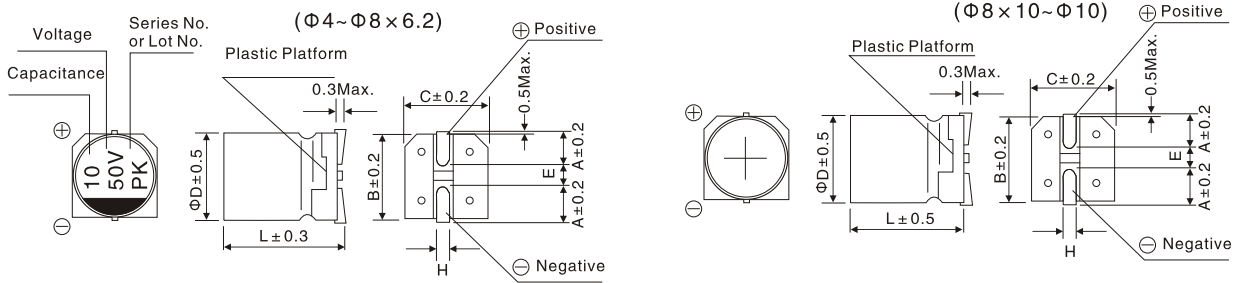
■ Specifications

Item	Characteristics																					
Operating Temperature Range	-55°C~+105°C																					
Rated Voltage Range	6.3V ~ 50V																					
Nominal Capacitance Range	0.1 μF ~ 1500 μF																					
Capacitance Tolerance	M ($\pm 20\%$) (20°C, 120Hz)																					
Leakage Current	$I \leq 0.01CV$ or $3(\mu\text{A})$, whichever is greater. C:Nominal capacitance (μF) V:Rated voltage(V) (20°C, after 2 minutes)																					
Dissipation Factor (Max)	<table border="1"> <thead> <tr> <th>WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table> <p>(20°C, 120Hz)</p>	WV	6.3	10	16	25	35	50	tan δ	0.30	0.24	0.20	0.16	0.14	0.14							
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Low Temperature Stability (Impedance Ratio)	<table border="1"> <thead> <tr> <th>WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120Hz)</p>	WV	6.3	10	16	25	35	50	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	Z(-40°C)/Z(+20°C)	8	6	4	4	3	3
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Z(-40°C)/Z(+20°C)	8	6	4	4	3	3																
Load Life	After 1000 hours' application of rated voltage at 105°C, the capacitors shall meet the following requirement: <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within $\pm 20\%$ of the initial value ($\leq 16\text{V}$:Within $\pm 25\%$ of the initial value).</td> </tr> <tr> <td>Dissipation factor</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the initial specified value.</td> </tr> </tbody> </table>	Capacitance change	Within $\pm 20\%$ of the initial value ($\leq 16\text{V}$:Within $\pm 25\%$ of the initial value).	Dissipation factor	Not more than 200% of the initial specified value.	Leakage current	Not more than the initial specified value.															
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Shelf Life	After storage for 1000 hours at +105°C, the capacitors shall meet the requirement of load life above .																					
Rated Ripple Current & Frequency Multipliers	<table border="1"> <tbody> <tr> <td>Frequency</td> <td>50Hz</td> <td>120Hz</td> <td>300Hz</td> <td>1kHz</td> <td>$\geq 10\text{kHz}$</td> </tr> <tr> <td>Multiplier</td> <td>0.70</td> <td>1.00</td> <td>1.17</td> <td>1.36</td> <td>1.50</td> </tr> </tbody> </table>	Frequency	50Hz	120Hz	300Hz	1kHz	$\geq 10\text{kHz}$	Multiplier	0.70	1.00	1.17	1.36	1.50									
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Chip Type Aluminum Electrolytic Capacitors

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■ Dimensions



	4×5.8	5×5.8	6.3×5.8	6.3×7.7	8×6.2	8×10	10×10
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5
L	5.8	5.8	5.8	7.7	6.2	10	10
H	0.5 ~ 0.8					0.8 ~ 1.1	

■ Nominal capacitance, rated voltage, rated ripple current and case size table

WV Item μF	6.3		10		16		25		35		50	
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~
0.1											4×5.8	1.0
0.22											4×5.8	2.6
0.33											4×5.8	3.2
0.47											4×5.8	3.8
1.0											4×5.8	6.3
2.2											4×5.8	11
3.3											4×5.8	14
4.7							4×5.8	13	4×5.8	15	5×5.8	19
10					4×5.8	18	5×5.8	23	5×5.8	25	6.3×5.8	31
22	4×5.8	22	5×5.8	27	5×5.8	31	6.3×5.8	39	6.3×5.8	43	8×6.2	51
33	5×5.8	31	5×5.8	36	6.3×5.8	41	6.3×5.8	49	8×6.2	59	6.3×7.7	60
47	5×5.8	37	6.3×5.8	47	6.3×5.8	51	6.3×5.8	68	6.3×5.8	63	6.3×7.7	63
100	6.3×5.8	62	6.3×5.8	62	6.3×5.8	62	6.3×7.7	91	6.3×7.7	84	8×10	140
150	6.3×5.8	86	6.3×5.8	86	6.3×7.7	95	8×10	140	8×10	155	10×10	180
220	8×6.2	102	6.3×7.7	105	6.3×7.7	105	8×10	155	10×10	190	10×10	220
330	6.3×7.7	105	8×10	195	8×10	195	10×10	190	10×10	300		
470	8×10	210	8×10	210	8×10	210	10×10	300				
680	8×10	210	10×10	310	10×10	310						
1000	10×10	230	10×10	310								
1500	10×10	310										

↑ Rated ripple current (mA rms)(105°C, 120Hz)